

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

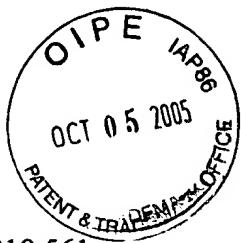
In re Application of:

Larry L. Hood

Application No.: 09/819,561

Filed: March 27, 2001

METHOD AND APPARATUS FOR
MODIFICATIONS OF VISUAL ACUITY
BY THERMAL MEANS



Examiner: David M. Shay

Art Group: 3739

DECLARATION OF PETER S. HERSH UNDER 37 C.F.R. §1.132

I, Peter S. Hersh, hereby declare that:

1. I am a practicing ophthalmologist. A copy of my Curriculum Vitae is attached as Exhibit A.
2. I have read the above entitled patent application.
3. I have also reviewed U.S. Patent No. 4, 907,586, issued to Bille et al. ("the Bille patent").
4. It is my opinion that Bille does not disclose a technique for denaturing corneal tissue to reshape a cornea. Bille discloses a procedure whereby corneal tissue is either ablated or changed to a semi-liquid form. It is my opinion that this is not "denaturing" tissue in the context of the above entitled application.

5. I reviewed and agree with the following statement that has been provided to the Patent Office by the Applicant to distinguish the claims of the above entitled application from the Bille patent. (Para. 3 from page 8 of the Amendment)

"Bille discloses applying a large amount of energy in the range of 10 megawatts to either fully ablate tissue, or modify tissue into a semi-liquid state. The claims recite denaturing tissue not ablating tissue. The claimed process provides enough energy to change the helical tissue structure without creating damage that causes the body to repair the denatured area. Changing the helical structure modifies the refractive power of the cornea. This is to be distinguished from Bille which discloses changing the tissue into a semi-liquid state. The Applicant contends that changing the tissue to a semi-liquid state will cause the body to repair the tissue back to the original state. This will cause regression in the change of refractive power. Bille does not disclose or suggest to merely denature the tissue."

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Dated: 9-22, 2005


Peter S. Hersh, MD, FACS



CURRICULUM VITAE

NAME: Peter S. Hersh, M.D., F.A.C.S. Jan 2005
Director, Cornea and Laser Eye Institute-Hersh Vision Group
Clinical Professor of Ophthalmology, UMDNJ-New Jersey Medical School
Visiting Research Collaborator, Princeton University

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EDUCATION

a. Undergraduate

9/74 - 5/78 A.B. Princeton University

b. Graduate and Professional

6/78 - 5/82 M.D. Johns Hopkins University School of Medicine

POSTDOCTORAL TRAINING

a. Internship and Residencies

7/82 - 6/83 Internship in Internal Medicine
Lenox Hill Hospital, New York

7/83 - 6/86 Residency, Ophthalmology
Massachusetts Eye and Ear Infirmary
Harvard Medical School, Boston

7/86 - 6/87 Fellowship, Cornea and External Disease
Cornea Service

**Massachusetts Eye and Ear Infirmary
Harvard Medical School, Boston**

b. Research Fellowships

5/79 - 8/79 Student Research Program in Diabetes, Endocrinology and Metabolism, Vanderbilt Medical School, Nashville, TN

OTHER TRAINING AND CERTIFICATIONS

- 11/86 Epikeratoplasty Certification Course
Washington, D.C. Sponsored by Allergan Medical Optics
- 1989 Fellow, Castroviejo Corneal Society
- 4/92 Keratorefractive Surgery Certification Course
Tufts-New England Medical Center
Sponsored by Chiron Ophthalmics
- 10/93 Automated Lamellar Keratoplasty Certification Course
New Brunswick, New Jersey
Sponsored by Chiron Ophthalmics
- 5/96 LASIK Mini-Fellowship
Stephen Slade, M.D. preceptor
Sponsored by Chiron Vision
Houston, Texas
- 6/99 Intracorneal Ring (INTACS) Certification Course
Sponsored by Keravision, Inc.
Chicago, IL

MILITARY

None

LICENSURE

- | | | |
|------|---|-----------------------------|
| 1982 | FLEX | |
| 1982 | New York Board of Medical Examiners | #152017 |
| 1986 | Massachusetts Board of Medical Examiners | #55999 |
| 1988 | New Jersey State Board of Medical Examiners | #52379 Exp. 06/30/2004 |

BOARD CERTIFICATION

- | | | |
|------|--|-----------------|
| 1987 | American Board of Ophthalmology, Diplomate | Certified 10/87 |
|------|--|-----------------|

NARCOTICS CERTIFICATION

N.J. CDS #D052095 Exp. 08/31/2003
DEA #AH2138180 Exp. 10/31/2003

UNIVERSITY ACADEMIC APPOINTMENTS

- 1983-86 Clinical Fellow in Ophthalmology
 Harvard Medical School
- 1986-89 Instructor in Ophthalmology
 Harvard Medical School
- 1990-94 Assistant Professor
 Albert Einstein College of Medicine
- 1994-95 Associate Professor
 Albert Einstein College of Medicine
- 1995-99 Associate Professor
 UMDNJ-New Jersey Medical School
- 1999-2003 Professor
 UMDNJ-New Jersey Medical School
- 2003-present Clinical Professor
 UMDNJ-New Jersey Medical School
- 2003-present Visiting Research Collaborator
 Dept. of Mechanical and Aerospace Engineering
 Princeton University

HOSPITAL APPOINTMENTS

- 1982-1983 Assistant in Medicine, Lenox Hill Hospital
 New York, New York
- 1983-1987 Assistant in Ophthalmology, Associate Staff
 Massachusetts Eye & Ear Infirmary
 Boston, Massachusetts
- 1987-1989 Assistant in Ophthalmology, Active Staff
 Massachusetts Eye & Ear Infirmary
 Boston, Massachusetts
- 1990-1995 Chairman, Dept of Ophthalmology
 Bronx Lebanon Hospital Center
 Bronx, New York
- 1990-1996 Assistant Attending in Ophthalmology

Montefiore Medical Center
Bronx, New York

- 1990-1995 Attending, Provisional Staff
Clara Maass Medical Center
Belleville, New Jersey
- 1995-present Attending in Ophthalmology
University Hospital
Newark, New Jersey
- 1995-present Attending in Ophthalmology
Hackensack University Medical Center
Hackensack, New Jersey

MAJOR ADMINISTRATIVE APPOINTMENTS

- 1986-87 Assistant Director of Residency Training
Massachusetts Eye and Ear Infirmary
- 1988-89 Assistant Director General Eye Service and
Emergency Services
Massachusetts Eye and Ear Infirmary
- 1988-89 Director, Massachusetts Eye and Ear Infirmary offsite clinics
- 1990-95 Chairman, Department of Ophthalmology
Bronx Lebanon Hospital Center
Bronx, New York
- 1992-95 Director, Refractive Surgery Unit
Montefiore Medical Center
Bronx, New York
- 1995- Director, Cornea and Refractive Surgery
UMDNJ-New Jersey Medical School
Newark, New Jersey
- 1995- Director, Cornea and Laser Eye Institute

OTHER PROFESSIONAL POSITIONS AND MAJOR VISITING APPOINTMENTS

None

AWARDS AND HONORS

- 1978 Phi Beta Kappa, Princeton University
- 1978 Princeton University Senior Thesis Prize
- 1986 Merck, Sharp, and Dohme/Massachusetts Eye and
Ear Infirmary Senior Resident Award

1989	Massachusetts Eye & Ear Infirmary Teacher of the Year Award	
1989	Fellow, Castroviejo Corneal Society	
1992	Fellow, American College of Surgeons	
1993	New York Magazine, Best Doctors in New York	
1994	American Academy of Ophthalmology Honor Award	
1998	Best Doctors in America, Woodward/White, Inc.	
1998	New Jersey Monthly, Best Doctors in New Jersey	
1999	Paul Harris Fellow Award, The Rotary Foundation of Rotary International	
1999	Pioneers in Refractive Surgery Award, presented by Summit Technology, Inc. at LASIK	Inst
2000	Honoree, 2000 Summit Autonomous Society	
2000	Nominee, American Ophthalmological Society	
2001	New York Magazine, Best Doctors in New York	
2001	Best Doctors in America, Woodward/White, Inc.	
2002	New Jersey Monthly, Top Docs in New Jersey	
2002	New York Magazine, Best Doctors in New York	
2002	Best Doctors in America, Woodward/White, Inc.	

BOARD OF DIRECTORS/TRUSTEES

1995-present	Lions Eye Bank of New Jersey Board of Trustees Research Director
1996-present	New Jersey Academy of Ophthalmology Board of Governors Director, Continuing Medical Education

MAJOR COMMITTEE ASSIGNMENTS

a. National and Regional

- 1989- Advisory Board, International Society of Ocular Trauma
- 1991- Paton Society, Eye Bank Association of America
 - Research Committee
 - International Relations Committee

b. Medical School

- 1998- CME Committee, UMDNJ-New Jersey Medical School
- 1999- Faculty Committee on Appointments and Promotions, UMDNJ-New Jersey Medical School

c. Hospital

None

d. Department

- 1995- Medical Education Committee, Department of Ophthalmology, UMDNJ-NJMS
- 1995- Executive Committee, Department of Ophthalmology, UMDNJ-NJMS

e. Editorial Boards

- | | |
|---------|---|
| 1997-99 | Survey of Ophthalmology, Associate Editor, Ophthalmic Surgery Section |
| 1996- | Ocular Surgery News, Editorial Board |
| 1996- | Ophthalmology Times, Editorial Advisory Board |
| 2001-02 | Vision & Aging, Editorial Board |

SCIENTIFIC REVIEWER

Archives of Ophthalmology
American Journal of Ophthalmology
Ophthalmology
Cornea
CLAO Journal
Journal of Refractive Surgery
Journal of Cataract and Refractive Surgery
British Journal of Ophthalmology

MEMBERSHIPS, OFFICES, AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES

- | | |
|---------|---|
| 1979- | American Medical Association |
| 1982- | Johns Hopkins Medical and Surgical Association |
| 1983-89 | Massachusetts Medical Society |
| 1985- | American Academy of Ophthalmology |
| 1986- | Massachusetts Eye and Ear Infirmary Alumni Association |
| 1986- | Contact Lens Association of Ophthalmologists |
| 1986- | SEVA Foundation for International Ophthalmology |
| 1987- | Association for Research in Vision and Ophthalmology |
| 1987- | National Eye Trauma System |
| 1989- | Castroviejo Corneal Society, Fellow |
| 1989- | International Society of Refractive Surgery |
| 1989- | Advisory Board, International Society of Ocular Trauma |
| 1990- | Ocular Microbiology and Immunology Group |
| 1990-95 | Bronx Medical Society |
| 1991- | American Society of Cataract and Refractive Surgery |
| 1991- | Paton Society, Eye Bank Association of America |
| | - Research Committee |
| | - International Relations Committee |
| 1991- | Ophthalmological Associate, Research to Prevent Blindness |
| 1992- | International Academy of Sports Vision |
| 1992- | Summit International Laser Users Group |
| 1992- | New York State Ophthalmological Society |
| 1992- | Fellow, American College of Surgeons |
| 1993- | New York Ophthalmic Laser Society |
| 1993- | New York Society for Clinical Ophthalmology |
| 1994- | Fellow, International Laser Surgery Society |
| 1995- | New Jersey Academy of Ophthalmology, Board of Governors |

2005- Fellow, American Ophthalmological Society

INSTRUMENT DESIGN

1. Hersh LASIK Retreatment Spatula B ASICO #AE-2776
2. Hersh LASIK Retreatment Forceps B ASICO #AE-4366
3. Hersh LASIK Flap Cannula BD Ophthalmics #585234

BIBLIOGRAPHY

ARTICLES:

1. Hersh PS. Separation and Characterization of the Messenger - RNA's Coding for Alpha-and Beta-Tubulin. Princeton University Thesis (May, 1978).
2. Cleveland DW, Hersh PS, Kirschner MW & Cowan, NJ. Isolation of Separate mRNA's for Alpha- and Beta-Tubulin and Beta- and Gamma Actin and Characterization of the Corresponding in vitro Translation Products. Journal Cell Biol. 1978;79:297.
3. Hersh PS, Green WR & Thomas JV. Tractional venous loops in diabetic retinopathy. Am J Ophthalmol. 1981;92:661-669.
4. Melamed S, Hersh P, Kersten D, Lee DA & Epstein DL. The Use of Glaucoma Shell Tamponade in Leaking Filtration Blebs. Ophthal. 1986;93:839-894.
5. Lee DA, Hersh P, Kersten D & Melamed S. Complications of Subconjunctival 5-Fluorouracil Following Glaucoma Filtering Surgery. Ophth. Surg. 1987;18:187-191.
6. Massicotte SJ, Hersh PS, Craft JS, Dickersin G & Albert DA. Olfactory Neuroblastoma Metastatic to the Eye. Graefes Arch. Ophthal. 1987;225-285.
7. Hersh PS & Kenyon KR. Anterior Segment Reconstruction Following Ocular Trauma. Int. Ophth. Clin. 1988;28:57-68.
8. Dieste MC, Hersh PS, Kylstra J, Larrison W, Frambach D, & Shingleton B. Intraocular Pressure Increase with Epsilon Aminocaproic Acid Therapy for Traumatic Hyphema. Am. J. Ophthal. 1988;106:383-387.
9. Kenyon KR & Hersh PS. Anterior Segment Reconstruction Following Ocular Trauma. An. Inst. Barraquer. 1988-1989;20:257-274.
10. Schuman JS, Hersh P & Kylstra J. Vitreous Hemorrhage Associated with Pilocarpine. Am. J. Ophthal. 1989;108:333-334.
11. Dieste MC, Hersh PS, Kylstra J, Larrison W, Frambach D & Shingleton KB. Intraocular Pressure Increase with Epsilon Aminocaproic Acid Therapy for Traumatic Hyphema. Letter. Am.J. Ophthal. 1989;107:569-570.
12. Hersh PS, Rice BA, Baer JC, Wells PA, Lynch SE, McGuigan LJB & Foster CS. Topical Nonsteroidal Agents and Corneal Wound Healing. Arch. Ophthal. 1990;108:577-583.
13. Larrison WI, Hersh PS, Kunzweiler T & Shingleton BJ. Sports-Related Ocular Trauma. Ophthal. 1990;97:1265-1269.
14. Strominger M, Sachs R & Hersh PS. Microbial Keratitis with Crack Cocaine. Arch. Ophthal. 1990;108:1672-1674.
15. Hersh PS, Kenyon KR. Complications of Radial Keratotomy: Review of the Literature and

- Implications for a Developing Country. Indian J. Ophthal. 1990;38:132-138.
16. Zagelbaum B, Tannenbaum M, Hersh PS. Candida Albicans Corneal Ulcer Associated with Crack Cocaine. Am. J. Ophthal. 1991;111:248-249.
 17. Hersh PS & Kenyon KR. Penetrating Keratoplasty for Severe Complications of Radial Keratotomy. Cornea 1991;10:170-174.
 18. Volpe NJ, Larrison WI, Hersh PS, Kim T & Shingleton BJ. Rebleeding in Traumatic Hyphema. Am. J. Ophthal. 1991;112:507-513.
 19. Kenyon KR, Starck T & Hersh PS. Penetrating Keratoplasty and Anterior Segment Reconstruction for Severe Ocular Trauma. Ophthal. 1992;99:396-402.
 20. Sachs R, Zagelbaum B & Hersh PS. Corneal Complications Associated with the Use of Crack Cocaine. Ophthal. 1993;100:187-191.
 21. Volpe NJ, Larrison WI, Hersh PS, Kim T & Shingleton BJ. Secondary Hemorrhage in Traumatic Hyphema. Letter. Am . J. Ophthal. 1992;113:345-346.
 22. Hersh PS, Spinak A, Garrana R & Mayers M. Excimer laser phototherapeutic keratectomy: strategies and results. Refractive and Corneal Surgery 1993;9:S90-S95.
 23. Zagelbaum V & Hersh PS. Endocapsular Hyphema. J. Cat. Refract. Surg. 1993;19:413-414.
 24. Hersh PS, Jordan AJ & Mayers M. Corneal graft rejection episode after excimer laser phototherapeutic keratectomy. Arch. Ophthal. 1993;111:735-736.
 25. Zagelbaum B, Tostanoski J & Hersh PS. Urban Eye Trauma. Ophthal. 1993;100:851-856.
 26. Zagelbaum B, Donnenfeld ED, Perry HD, Buxton J, Buxton D & Hersh PS. Corneal ulcer caused by combined intravenous and anesthetic abuse of cocaine. Am J Ophthal. 1993;116:241-242.
 27. Zagelbaum BM, Tostanoski JR, Hochman MA & Hersh PS. Topical lidocaine and proparacaine abuse. Am. J. Emergency Med. 1994;12:96-97.
 28. Hersh PS, Patel R. Excimer laser correction of myopia and astigmatism using an ablative mask. Refractive Corneal Surg. 1994;10:250-254.
 29. Zagelbaum BM, Hersh PS, Donnenfeld ED, Perry HD & Hochman MA. Ocular trauma in major league baseball players. New England Journal of Medicine. 1994;330:1021-1023.
 30. Hersh PS. Iridoschisis following penetrating keratoplasty for keratoconus. Letter. Cornea. 1994;13:545-546.
 31. Kenyon KR, Kenyon BM, Starck T & Hersh PS. Penetrating keratoplasty and anterior segment reconstruction for severe ocular trauma. German Journal of Ophthal. 1994;3:90-99.
 32. Michalos P, Avila EN, Florakis GJ & Hersh PS. Do human tears absorb ultraviolet light?

- CLAO Journal. 1994;20:192-193.
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 34. Hersh PS, Schwartz-Goldstein B. Summit PRK Topography Study Group. Corneal topography of phase III excimer laser photorefractive keratectomy: Characterization and clinical effects. Ophthal. 1995;102:963-978.
 35. Schwartz-Goldstein B, Hersh PS. Summit PRK Topography Study Group. Corneal topography of phase III excimer laser photorefractive keratectomy: Optical zone centration analysis. Ophthal. 1995;102:951-962.
 36. Zagelbaum B, Starkey C, Hersh PS, Donnenfeld ED, Perry HD & Jeffers JB. The National Basketball Association (NBA) eye injury study. Arch. Ophthal. 1995;113:749-752.
 37. Carr J, Patel R, Hersh PS. Management of late corneal haze following photorefractive keratectomy. J. Refractive Surg. 1995;11:309-313.
 38. Burnstein Y, Klapper D, Hersh PS. Experimental wound rupture following excimer laser photorefractive keratectomy. Arch. Ophthal. 1995;113:1056-1059.
 39. Maloney RK, Chan WK, Steinert R, Hersh P & O'Connell M. A multicenter trial of photorefractive keratectomy for residual myopia following previous ocular surgery. Ophthal. 1995;102:1042-1053.
 40. Hersh PS, Carr JD. Excimer laser photorefractive keratectomy. Ophthalmic Practice 1995;13:126-133.
 41. Cohen AL, Hersh PS, Fleischman, JA. Management of trauma-induced cataracts. Ophthalmology Clinics of North America 1995;8:633-646.
 42. Burnstein Y, Hersh PS. Photorefractive keratectomy following radial keratotomy. J Refract Surg. 1996;12:163-170.
 43. Hersh PS, Shah S, Geiger D, Holladay J. Corneal topography irregularities after excimer laser photorefractive keratectomy. Best Paper of Session Supplement. J Cat Refractive Surg 1995;21:9-13.
 44. Shah, SI, Hersh PS. Photorefractive keratectomy for myopia using a 6-mm optical zone. J Refract Surg. 1996;12:341-351.
 45. Hersh PS, Shah SI, Durrie D. Monocular diplopia following excimer laser photorefractive keratectomy after radial keratotomy. Ophth Surg Lasers. 1996;27:315-317.
 46. Hersh PS, Shah S, Holladay JT. Corneal asphericity following excimer laser photorefractive keratectomy. Ophth Surg Lasers. 1996;27S:421-428.
 47. Hersh PS, Shah S, Geiger D, Holladay J, Summit Photorefractive Keratectomy Topography Study Group. Corneal optical irregularity after excimer laser photorefractive keratectomy. J.

- Cat. Refract. Surg. 1996;22:197-204.
48. Hersh PS, Burnstein Y, Carr J, Etwaru G, Mayers M. Phototherapeutic keratectomy: surgical strategies and clinical outcomes. Ophthal. 1996;103:1210-1222.
 49. Hersh PS, Schein OD, Steinert RF. Characteristics influencing outcomes of photorefractive keratectomy. Ophthal. 1996;103:1964-1969.
 50. Carr JD, Hersh PS. Excimer laser technology: key concepts for the ophthalmologist. Seminars in Ophthal. 1996;11:212-223.
 51. Shah S, Hersh PS. Evolving bias in reporting refractive surgery in the popular press. J. Refract. Surg. 1996;12:638-641.
 52. Zagelbaum B, Starkey C, Hersh PS, Donnenfeld ED, Perry HD & Jeffers JB. The National Basketball Association eye injury study. Sports Vision 1996;12:7-11.
 53. Hersh PS, Shah S, Summit PRK Topography Study Group. Corneal topography of 6.0 mm excimer laser photorefractive keratectomy: Characterization and clinical effects. Ophthal. 1997;104:1333-1342.
 54. Hersh PS, Stulting D, Steinert RF, Waring GO, Thompson K, Doney K, O'Connell M. Results of phase III excimer laser photorefractive keratectomy for myopia. Ophthal. 1997;104:1535-1553.
 55. Scher KS, Hersh PS. Disparity between refractive error and visual acuity after photorefractive keratectomy: Multifocal corneal effects. J Cat Ref Surg. 1997;23:1029-1033.
 56. Hersh P. A standardized classification system for corneal topography patterns after laser refractive surgery. J Refract Surg. 1997;13:571-578.
 57. Hersh PS, Scher KS, Irani R. Corneal topography of PRK and LASIK. Ophthal. 1998;105:612-619.
 58. Huang JC, Ishida M, Hersh P, Sugino IK, Zarbin MA. Preparation and transplantation of photoreceptor sheets. Current Eye Research 1998;17:573-585.
 59. Hersh PS, Brint SF, Berkeley RB, Durrie DS, Gordon M, Maloney RK, Michelson MA, Thompson VM. PRK versus LASIK for moderate to high myopia: A prospective randomized study. Ophthalmology 1998;105:1512-1522.
 60. Steinert RF, Hersh PS. Spherical and aspherical photorefractive keratectomy and laser in situ keratomileusis for moderate to high myopia: Two prospective, randomized clinical trials. Tr Am Ophth Soc 1998;96:197-227.
 61. Abbas U, Hersh PS. Natural history of corneal topography after excimer laser photorefractive keratectomy. Ophthalmology, 1998;105:2212-2224.
 62. Manche EE, Carr JD, Haw WW, Hersh PS. Excimer laser refractive surgery. West J Med. 1998;169:30-38

63. Abbas U, Hersh PS. Early corneal topography after excimer laser photorefractive keratectomy. *Ophthalmology*, 1999; 115:22-26.
64. Chiang PK, Hersh PS. Comparing predictability between eyes after bilateral laser in situ keratomileusis. *Ophthalmology*, 1999;106;1684-1691.
65. Hersh PS, Abbassi R. Surgically induced astigmatism after photorefractive keratectomy and laser in situ keratomileusis. *J Cataract Refract Surg*, 1999;25:389-398.
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67. Hersh PS, Steinert RF, Brint SF. Photorefractive keretectomy versus laser in situ keratomileusis. Comparison of optical side effects. *Ophthalmology* 2000;107:925-933
68. Ginsberg NE, Hersh PS. Effect of lamellar flap location on corneal topography after laser in situ keratomileusis. *J Cataract Refract Surg*. 2000;26:992-1000.
69. Dastgheib KA, Clinch TE, Manche EE, Hersh P, Ramsey J. Sloughing of corneal epithelium and wound healing complications associated with laser in situ keratomileusis in patients with epithelial basement membrane dystrophy. *Am J Ophthalmol* 2000;130:297-303.
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71. Karp KO, Hersh PS, Epstein RJ. Delayed keratitis after laser in situ keratomileusis. *J. Cat Refract Surg* 2000;26:925-928.
72. Abbas UL, Hersh PS. Late natural history of corneal topography after excimer laser photorefractive keratectomy. *Ophthalmology* 2001;108:953-959.
73. Asbell PA, Maloney RK, Davidorf J, Hersh P, McDonald M, Manche E. Conductive keratoplasty for the correction of hyperopia. *Trans AM Ophthalmology Society* 2001; 99:79-97.
74. McDonald MB, Davidorf J, Maloney RK, Manche EE, HershP. Conductive Keratoplasty for the correction of low to moderate hyperopia. *Ophthalmology* 2002; 109:637-649.
75. Leu G, Hersh PS. Phototherapeutic keratectomy for the treatment of diffuse lamellar keratitis. *J Cat Refract Surg* 2002;28:1471.1474.
76. Hersh PS, Ratkaran R, Hersh D. Contact lens evaluation of corneal topography irregularities after laser refractive surgery. *J Cat Refract Surg* 2002;28:2054-2057.
77. McDonald MB, Hersh P, Manche EE, Maloney RK, Davidorf J, Sabry M. Conductive Keratoplasty for the correction of low to moderate hyperopia: U.S. clinical trial 1-year results on 355 eyes. *Ophthalmology* 2002; 109:1978-1990.
78. Hersh PS, Fry KL, Bishop DS. Incidence and associations of retreatment after LASIK. *Ophthalmology* 2003;110:748-754.

79. Hersh PS, Fry KL, Blaker JW. Spherical aberration after LASIK and PRK. *J Cat Refract Surg* 2003;11:2096-2104.
80. Klein S, Fry KL, Hersh PS. LASIK after conductive keratoplasty. *J Cat Refract Surg* 2004;30:702-705.
81. Steinert RF, Ashrafzadeh A, Hersh PS. Results of phototherapeutic keratectomy in the management of flap striae after LASIK. *Ophthalmology* 2004;111:740-746.
82. Hersh PS, Fry K. Conductive keratoplasty to treat LASIK complications. *Ophthalmology* 2005 (in press).
83. Hersh PS. Conductive keratoplasty. *Trans Amer Ophth Soc.* (in press)

TEXTBOOKS:

1. Hersh PS. *Ophthalmic Surgical Procedures*. Boston: Little, Brown & Co. 1988, 450 pp.
2. Shingleton B, Hersh PS and Kenyon KR. *Eye Trauma*. St. Louis: C.V. Mosby, 1991, 380 pp.
3. Hersh PS. *Ophthalmic Surgical Procedures* (Japanese edition). Tokyo:Medical Sciences International 1991, 450 pp.
4. Shingleton B, Hersh PS and Kenyon KR. *Traumatismos Oculares* (Spanish edition). London: Mosby-YearBook 1991, 380 pp.
5. Hersh PS, Wagoner MD. *Therapeutic Uses of the Excimer Laser for Corneal Disease*. New York: Thieme Publishing 1998, 161 pp.
6. Wu H, Steinert R, Thompson V, Slade S, Hersh PS. *Refractive Surgery*. New York: Thieme Publishing 1998, 500 pp.

BOOK CHAPTERS:

1. Shingleton BJ, Hersh PS. Traumatic hyphema. In: *Eye Trauma* Shingleton B, Hersh PS & Kenyon KR.(Eds); C.V. Mosby, St. Louis, 1991; pp 81-98.
2. Hersh PS, Shingleton BJ & Kenyon KR. Management of corneoscleral lacerations. In: *Eye Trauma* Shingleton B, Hersh PS & Kenyon KR. (Eds); C.V. Mosby, St. Louis, 1991; pp107-132.
3. Hersh PS & Kenyon KR. Anterior segment reconstruction following ocular trauma. In: *Eye Trauma* Shingleton B, Hersh PS & Kenyon KR. (Eds); C.V. Mosby, St. Louis, 1991; pp 148-162.

4. Kenyon KR, Hersh PS, Starck T and Fogle JA. Corneal Dysgeneses, Dystrophies and Degenerations. In: *Duane's Clinical Ophthal.* Tasman W (Eds); J.B. Lippincott, Philadelphia, 1992; pp 1-22.
5. Kenyon KR, Starck T & Hersh PS. Anterior Segment Reconstruction after Trauma. In: *Corneal Surgery*, Brightbill, F.S. (Eds); C.V. Mosby, St. Louis, 1993; pp 352-359.
6. Tortora CM, Blaker JW & Hersh PS. The Optics of Intraocular Lenses. In: *Principles and Practice of Ophthal.* Jakobiec & Albert (Eds); W.B.Saunders, Philadelphia, 1993; pp 3648-3662.
7. Hersh PS & Shingleton BJ. Anterior Segment Ocular Trauma. In: *Principles and Practice of Ophthal.* Jakobiec & Albert (Eds); W.B. Saunders, Philadelphia, 1993; pp 3383-3403.
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